

THEOREM 1. Let $\{f_n\}_{n=0}^\infty$ be a sequence of functions in $L^1(\mathbb{R})$ such that $f_n \geq 0$, $\int_{\mathbb{R}} f_n(x) dx = 1$, and $f_n(x) \leq C e^{-|x|^p}$ for some constant C and $p > 1$. Then, if f_n converges weakly to f in $L^1(\mathbb{R})$, it follows that $f(x) \leq C e^{-|x|^p}$ almost everywhere.

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4. A multi-service-class definition type ATM switch according to any one of claims 1 to 3 wherein the data processing device is capable of renewing and storing new data regarding a new service category and a new QOS class.

inputting data with regard to a service class containing a service category and a QOS class;

defining a buffer, within the plurality of buffers, to be related to the
10 service class of the data;

outputting content of the data.

6. A service class defining method for defining a service class for each of a plurality of buffers provided within an ATM switch, comprising the steps of:

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5 category and a QOS class;

setting the data to a buffer whose buffer number is designated by the data within the plurality of buffers when a request type of the data corresponds to a data setting mode; and

outputting content of the data set to the buffer.

7. A service class defining method for defining a service class for each of a plurality of buffers provided within an ATM switch, comprising the steps of:

5 detecting a buffer number with respect to a service class, containing
a service category and a QOS class, requested by a user;

reading data from a buffer, corresponding to the buffer number,
within the plurality of buffers; and

outputting content of the data read from the buffer.

8. A service class defining method for defining a service class for each of a plurality of buffers provided within an ATM switch, comprising the steps of:

5 class, which is designated by a user;

renewing data with respect to the service class; and

outputting content of the renewed data.

